

Please add new claims 218-235 as follows:

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- 218. (New) An isolated nucleic acid encoding a human or rat neuropeptide FF2 (NPFF2) receptor, wherein the human NPFF2 receptor has an amino acid sequence identical to the amino acid sequence shown in Figure 8 (SEQ ID NO: 6) or that encoded by plasmid pcDNA3.1-hNPFF2b (ATCC Accession No. 203255); and the rat NPFF2 receptor has an amino acid sequence identical to the amino acid sequence shown in Figures 23A-23B (SEQ ID NO: 44) or that encoded by plasmid pcDNA3.1-rNPFF2-f (Patent Deposit Designation No. PTA-535).--
 - 219. (New) The nucleic acid of claim 218, wherein the nucleic acid is DNA.--
 - 220. (New) The DNA of claim 219, wherein the DNA is cDNA.
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 - 221. (New) The nucleic acid of claim 218, wherein the nucleic acid is RNA.--
 - 222. (New) A vector comprising the nucleic acid of claim 218.--
 - 223. (New) A vector of claim 222, adapted for expression in a cell which comprises the regulatory elements necessary for expression of the nucleic acid in the cell operatively linked to the nucleic acid encoding the receptor so as to permit expression thereof, wherein the cell is a bacterial, amphibian, yeast, insect or mammalian cell.--

- 224. (New) The vector of claim 223, wherein the vector is a baculovirus.--
- 225. (New) The vector of claim 222, wherein the vector is a plasmid.--
- 226. (New) The plasmid of claim 225 designated pcDNA3.1-hNPFF2b (ATCC Accession No. 203255).--
- 227. (New) The plasmid of claim 225 designated pcDNA3.1-rNPFF2-f (Patent Deposit Designation No. PTA-535).--
- 228. (New) An isolated cell comprising the vector of claim 223.--
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B,
--229. (New) The isolated cell of claim 228, wherein the cell is a non-mammalian cell.--
- 230. (New) The isolated cell of claim 229, wherein the non-mammalian cell is a Xenopus oocyte cell or a Xenopus melanophore cell.--
- 231. (New) The isolated cell of claim 228, wherein the cell is a mammalian cell.--
- 232. (New) The isolated mammalian cell of claim 231, wherein the cell is a COS-7 cell, a 293 human embryonic kidney cell, a NIH-3T3 cell, a LM(tk-) cell, a mouse Y1 cell, or a CHO cell.--
- 233. (New) An insect cell comprising the vector of claim 223.--